

METHOD, SYSTEM AND COMPUTER PRODUCT FOR PERFORMING NEW MATERIAL DEVELOPMENT

Abstract of Disclosure

A method for performing new material development. The method comprises receiving a user simulation scenario from a user wherein the user simulation scenario is in a-cyclic graph format and includes a plurality of material development modules represented as vertices. The user simulation scenario also includes a starting module. Each vertex includes data information including at least one input file source and at least one output file destination. Relationships between the modules are represented as edges and each edge includes at least one of previous module and subsequent module. Each edge also includes data flow information between the previous module and the subsequent module. The method further comprises receiving a request to invoke the user simulation scenario and the request includes the input file source for the starting module. Traversing the vertices along the edges is performed in response to receiving the request and to the data flow information. The traversing includes executing the modules associated with each vertex beginning with the starting module in an order specified by the edges and the executing results in data being written to the output file destination for each vertex.

Figures